

Author Index

Absi-Halabi, M., see Stanislaus, A. (39)239
 Al-Dolama, K., see Stanislaus, A. (39)239
 Allenger, V.M.
 —, Brown, J.R., Clugston, D. and Ternan, M.
 Catalyst deactivation in acetylene polymerization (39)191
 Antoshin, G.V., see Yuffa, A.Ya. (39)153

Baranski, A., see Pattek-Janczyk, A. (39)169
 Bartholomew, C.H., see Jones, R.D. (39)77
 Beer, V.H.J. de, see Van Der Kraan, A.M. (39)L7
 Bhat, S.G.T., see Jasra, R.V. (39)49
 Bhatt, B.D., see Jasra, R.V. (39)49
 Brown, J.R., see Allenger, V.M. (39)191
 Burggraaf, A.J., see Gellings, P.J. (39)1

Carrado, K., see Skoulikis, N.D. (39)61
 Chiwen, T., see Yingli, B. (39)185
 Clugston, D., see Allenger, V.M. (39)191
 Coughlin, R.W., see Skoulikis, N.D. (39)61
 Crajè, M.W.J., see Van Der Kraan, A.M. (39) L7

Dao, L.H., see Haniff, M.I. (39)33
 De Beer, V.H.J., see Van Der Kraan, A.M. (39)L7

El Tanany, A.
 —, Pajonk, G.M., Steinberg, K.-H. and Teichner, S.J.
 Hydrogen spillover activation of H-erionite for the hydroconversion of n-heptane (39)89

Eliyas, A.
 — and Petrov, L.
 Thermooscillations during the complete oxidation of ethylene oxide over a supported silver catalyst (39)L1

Erdohelyi, A.
 — and Solymosi, F.
 Partial oxidation of ethane over KVO_3/SiO_2 and potassium promoted V_2O_5/SiO_2 catalysts (39)L11

Fedorovskaya, E.A., see Yuffa, A.Ya. (39)153
 Fetting, F., see Herrmann, Chr. (39)213

Garg, V.N., see Jasra, R.V. (39)49
 Gellings, P.J.
 —, Koopmans, H.J.A. and Burggraaf, A.J. Electrocatalytic phenomena in gas phase reactions in solid electrolyte electrochemical cells (Review) (39)1
 Gerkema, E., see Van Der Kraan, A.M. (39)L7
 Giannetto, G., see Lemos, F. (39)227
 Guisnet, M., see Lemos, F. (39)227
 Günter, J.R.
 —, Marks, O. Korányi, T.I. and Paal, Z. High-resolution electron microscopy of cobalt-molybdenum catalysts. Structural changes and activity (39)285

Haniff, M.I.
 — and Dao, L.H.
 Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39)33

Hausinger, G.
 —, Schmelz, H. and Knözinger, H. Effect of the method of preparation on the properties of titania-supported vanadia catalysts (39)267

Herrmann, Chr.
 —, Fetting, F. and Plog, C.
 Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts (39)213

Ikai, S., see Suzuki, K. (39)315

Jasra, R.V.
 —, Bhatt, B.D., Garg, V.N. and Bhat, S.G.T.
 Thermal desorption of C_6-C_9 n-alkenes from the surface of zeolite HY (39)49

Jiang, H.J.
 —, Tzou, M.S. and Sachtler, W.M.H. Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39)255

Jones, R.D.

— and Bartholomew, C.H.
Improved flow technique for measurement of hydrogen chemisorption on metal catalysts (39)77

Kaiji, Z., see Yingli, B. (39)185

Kern, M., see Lemos, F. (39)227

Kim, J.C.
— and Woo, S.I.
Characterization of cobalt clusters nucleated on CoNaY by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation (39)107

Kiyozumi, Y., see Suzuki, K. (39)315

Knözinger, H., see Hausinger, G. (39) 267

Koopmans, H.J.A., see Gellings, P.J. (39)1

Koranyi, T.I., see Günter, J.R. (39)285

Kostapapas, A., see Skoulikis, N.D. (39)61

Kostova, N.G., see Spozhakina, A.A. (39)333

Kotarba, A., see Pattek-Janczyk, A. (39)169

Kowalska, A., see Pattek-Janczyk, A. (39)169

Kraan, A.M., van der, see Van Der Kraan, A.M. (39)L7

Krylova, A.V.
—, Nefedova, N.V. and Torocheshnikov, N.S.
Stabilization of pyrophoric industrial catalysts with carbon dioxide or oxidant mixtures (39)325

Kucherov, A.V., see Yuffa, A.Ya. (39)153

Lee, F.-M.
— and Schaffer, A.M.
Catalytic activity of silica-supported vanadium for paraffin reactions (39)135

Lemos, F.
—, Ramôa Ribeiro, F., Kern, M., Giannetto, G. and Guisnet, M.
Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39)227

Madeley, R.A.
— and Wanke, S.E.
Variation of the dispersion of active phases in commercial nickel-molybdenum/ γ -alumina hydrotreating catalysts during oxidative regeneration (39)295

Marks, O., see Günther, J.R. (39)285

Matsuzaki, K., see Suzuki, K. (39)315

Miczko, B., see Pattek-Janczyk, A. (39)169

Minachev, Ch.M., see Yuffa, A.Ya. (39)153

Murty, K.R., see Sivasanker, S. (39)127

Nefedova, N.V., see Krylova, A.V. (39)325

Paal, Z., see Günter, J.R. (39)285

Padalkar, S.R., see Sivasanker, S. (39)123

Padalkar, S.R., see Sivasanker, S. (39)127

Pajonk, G.M., see El Tanany, A. (39)89

Pattek-Janczyk, A.
—, Baranski, A., Kotarba, A., Kowalska, A., Miczko, B., Pyrczak, E., Reizer, A., Reubenbauer, K., Sepiol, B. and Spiewak, Z.
Characterization of unreduced fused ion catalyst for ammonia synthesis (39)169

Petrov, L., see Eliyas, A. (39)L1

Plog, C., see Herrmann, Chr. (39)213

Pryczak, E., see Pattek-Janczyk, A. (39)169

Radomyski, B.
—, Szczygiel, J. and Trawczynski, J.
Reaction of thiophene with hydrogen over cobalt-molybdenum/ γ -alumina catalysts II. The kinetics of the reaction (39)25

Ramôa Ribeiro, F., see Lemos, F. (39)227

Ramselaar, W.L.T.M., see Van Der Kraan, A.M. (39)L7

Ratnasamy, P., see Sivasanker, S. (39)127

Reizer, A., see Pattek-Janczyk, A. (39)169

Reubenbauer, K., see Pattek-Janczyk, A. (39)169

Sachtler, W.H.M., see Jiang, H.J. (39)255

Schaffer, A.M., see Lee, F.-M. (39)135

Schmelz, H., see Hausinger, G. (39)267

Sepiol, B., see Pattek-Janczyk, A. (39)169

Shin, S., see Suzuki, K. (39)315

Shochireva, T.Kh., see Spozhakina, A.A. (39)333

Shopov, D.M., see Spozhakina, A.A. (39)333

Shapiro, E.S., see Yuffa, A.Ya. (39)153

Sivasanker, S.
— and Padalkar, S.R.
Mechanism of dehydrocyclization of n-alkanes over platinum-alumina catalysts (39)123

Sivasanker, S.

—, Waghmare, K.J., Padalkar, S.R., Ratnasamy, P. and Murty, K.R.
 Naphtha reforming over catalysts containing a ferrisilicate zeolite of the pentasil type (39)127

Skoularikis, N.D.
 —, Coughlin, R.W., Kostapapas, A., Carrado, K. and Suib, S.L.
 Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39)61

Slinkin, A.A., see Yuffa, A.Ya. (39)153
 Solymosi, F., see Erdohelyi, A. (39)L11
 Spiewak, Z., see Pattek-Janczyk, A. (39)169
 Spozhakina, A.A.
 —, Kostova, N.G., Yuchnovski, I.N., Shopov, D.M., Yurieva, T.M. and Shochireva, T.Kh.
 Synthesis of molybdenum/silica and cobalt-molybdenum/silica catalysts and their catalytic activity in the hydrodesulphurization of thiophene (39)333

Stakheev, A.Y., see Yuffa, A.Ya. (39)153
 Stanislaus, A.
 —, Absi-Halabi, M. and Al-Dolama, K.
 Effect of phosphorus on the acidity of γ -alumina and on the thermal stability of γ -alumina supported nickel-molybdenum hydrotreating catalysts (39)239

Steinberg, K.-H., see El Tanany, A. (39)89
 Suib, S.L., see Skoularikis, N.D. (39)61
 Suzuki, K.
 —, Kiyozumi, Y., Matsuzaki, K., Ikai, S. and Shin, S.
 Effect of modification of ZSM-5 type of zeolite with calcium phosphate on its physico-chemical and catalytic properties (39)315

Szczyciel, J., see Radomyski, B. (39)25

Teichner, S.J., see El Tanany, A. (39)89
 Ternan, M., see Allenger, V.M. (39)191
 Torocheshnikov, N.S., see Krylova, A.V. (39)325

Trawczynski, J., see Radomyski, B. (39)25
 Tzou, M.S., see Jiang, H.J. (39)255

Van Der Kraan, A.M.
 —, Crajè, M.W.J., Gerkema, E., Ramseelaar, W.L.T.M. and De Beer, V.H.J.
 So-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalyst by Mössbauer emission spectroscopy (39)L7

Waghmare, K.J., see Sivasanker, S. (39)127
 Wanke, S.E., see Madeley, R.A. (39)295
 Woo, S.I., see Kim, J.C. (39)107

Xiangguong, Y., see Yingli, B. (39)185

Yingli, B.
 —, Kaiji, Z., Yutao, J., Chiwen, T. and Xiangguong, Y.
 Catalytic oxidative coupling of methane over alkali, alkaline earth and rare earth metal oxides (39)185

Yu Stakheev, A., see Yuffa, A.Ya. (39)153
 Yuchnovski, I.N., see Spozhakina, A.A. (39)333

Yuffa, A.Ya.
 —, Stakheev, A.Yu., Shapiro, E.S., Slinkin, A.A., Kucherev, A.V., Fedorovskaya, E.A., Antoshin, G.V. and Minachev, Ch.M.
 Highly dispersed nickel catalyst formation and its activity in benzene hydrogenation (39)153

Yurieva, T.M., see Spozhakina, A.A. (39)333

Yutao, J., see Yingli, B. (39)185

Subject Index

Acetylene polymerization
 Catalyst deactivation in acetylene polymerization (39) 191

Acidity
 Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Activated carbon
 Co-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalyst by Mössbauer emission spectroscopy (39) L7

Adsorption
 Thermal desorption of C₆-C₉ n-alkanes from the surface of zeolite HY (39) 49

Adsorption
 Improved flow technique for measurement of hydrogen chemisorption on metal catalysts (39) 77

Ageing
 Catalytic activity of silica-supported vanadium for paraffin reactions (39) 135

Ageing
 Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts (39) 213

Ageing
 Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Alkenes
 Thermal desorption of C₆-C₉ n-alkenes from the surface of zeolite HY (39) 49

Amination
 Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts (39) 213

Ammonia synthesis
 Characterization of unreduced fused iron catalyst for ammonia synthesis (39) 169

Aromatics
 Mechanism of dehydrocyclization of n-alkanes over platinum-alumina catalysts (39) 123

Aromatics
 Naphtha reforming over catalysts containing a ferrisilicate zeolite of the pentasil type (39) 127

Aromatics
 Catalyst deactivation in acetylene polymerization (39) 191

Benzene hydrogenation
 Highly dispersed nickel catalyst formation and its activity in benzene hydrogenation (39) 153

Benzene hydrogenation
 Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Bimetal/zeolite
 Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Carbohydrates
 Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33

Carbon
 So-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalyst by Mössbauer emission spectroscopy (39) L7

Carbon monoxide hydrogenation
 Characterization of cobalt clusters nucleated on CoNaY by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation (39) 107

Catalyst characterization
 Partial oxidation of ethane over KVO₃/SiO₂ and potassium promoted V₂O₅/SiO₂ catalysts (39) L11

Catalyst characterization
 Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39) 61

Catalyst characterization
 Improved flow technique for measurement of hydrogen chemisorption on metal catalysts (39) 77

Catalyst characterization

- Mechanism of dehydrocyclization of n-alkanes over platinum-alumina catalysts (39) 123

Catalyst characterization

- Characterization of unreduced fused iron catalyst for ammonia synthesis (39) 169

Catalyst characterization

- Catalyst deactivation in acetylene polymerization (39) 191

Catalyst characterization

- Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Catalyst characterization

- Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Catalyst characterization

- Effect of the method of preparation on the properties of titania-supported vanadia catalysts (39) 267

Catalyst characterization

- High-resolution electron microscopy of cobalt-molybdenum catalysts: structural changes and activity (39) 285

Catalyst characterization

- Effect of modification of ZSM-5 type zeolite with calcium phosphate on its physico-chemical and catalytic properties (39) 315

Catalyst characterization

- Synthesis of molybdenum/silica and cobalt-molybdenum/silica catalysts and their catalytic activity in the hydrodesulphurization of thiophene (39) 333

Catalyst preparation

- Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39) 61

Catalyst preparation

- Hydrogen spillover activation of H-erionite for the hydroconversion of n-heptane (39) 89

Catalyst preparation

- Naphtha reforming over catalysts containing a ferrisilicate zeolite of the pentasil type (39) 127

Catalyst preparation

- Highly dispersed nickel catalyst formation and its activity in benzene hydrogenation (39) 153

Catalyst preparation

- Catalytic oxidative coupling of methane over alkali, alkaline earth and rare earth metal oxides (39) 185

Catalyst preparation

- Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Catalyst preparation

- Effect of the method of preparation on the properties of titania-supported vanadia catalysts (39) 267

Catalyst preparation

- Stabilization of pyrophoric industrial catalysts with carbon dioxide or oxidant mixtures (39) 325

Catalyst preparation

- Synthesis of molybdenum/silica and cobalt-molybdenum/silica catalysts and their catalytic activity in the hydrodesulphurization of thiophene (39) 333

Cerium/zeolite

- Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Chromium (III)/bentonite

- Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39) 61

Cobalt

- Improved flow technique for measurement of hydrogen chemisorption on metal catalysts (39) 77

Cobalt clusters

- Characterization of cobalt clusters nucleated on CoNaY by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation (39) 107

Cobalt-molybdenum

- High-resolution electron microscopy of cobalt-molybdenum catalysts: Structural changes and activity (39) 285

Cobalt-molybdenum/alumina

- Reaction of thiophene with hydrogen over cobalt-molybdenum/ γ -alumina catalysts II. The kinetics of the reaction (39) 25

Cobalt-molybdenum/silica

- Synthesis of molybdenum/silica and cobalt-molybdenum/silica catalysts and their catalytic activity in the hydrodesulphurization of thiophene (39) 333

Coke formation

Thermal desorption of C_6 - C_9 n-alkanes from the surface of zeolite HY

Coke formation

- Catalyst deactivation in acetylene polymerization (39) 191

Coke formation

- Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts (39) 213

Coke formation

- Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Coke formation

- Effect of modification of ZSM-5 type zeolite with calcium phosphate on its physico-chemical and catalytic properties (39) 315

Cracking

- Thermal desorption of C_6 - C_9 n-alkenes from the surface of zeolite HY (39) 49

D-fructose

- Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33

D-glucose

- Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33

Deactivation

- Catalyst deactivation in acetylene polymerization (39) 191

Dehydrocyclization

- Mechanism of dehydrocyclization of n-alkanes over platinum-alumina catalysts (39) 123

Dehydrocyclization

- Catalytic activity of silica-supported vanadium for paraffin reactions (39) 135

Dehydrogenation

- Catalytic activity of silica-supported vanadium for paraffin reactions (39) 135

Deoxygenation

- Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33

Electrocatalysis

- Electrocatalytic phenomena in gas phase

reactions in solid electrolyte electrochemical cells (Review) (39) 1

Erionite

- Hydrogen spillover activation of H-erionite for the hydroconversion of n-heptane (39) 89

Ethane oxidation

- Partial oxidation of ethane over KVO_3/SiO_2 and potassium promoted V_2O_5/SiO_2 catalysts (39) L11

Ethylene oxide

- Thermooscillations during the complete oxidation of ethylene oxide over a supported silver catalyst (39) L1

Ferromagnetic resonance spectroscopy

- Characterization of cobalt clusters nucleated on CoNaY by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation (39) 107

Ferromagnetic resonance spectroscopy

- Highly dispersed nickel catalyst formation and its activity in benzene hydrogenation (39) 153

Fructose

- Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33

Glucose

- Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33

Gas phase reactions

- Electrocatalytic phenomena in gas phase reactions in solid electrolyte electrochemical cells (Review) (39) 1

Heptane cracking

- Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Hexane hydrogenolysis

- Dispersion and catalysis of platinum in bi-metal/zeolite catalysts (39) 255

High-resolution electron microscopy

- High resolution electron microscopy of cobalt-molybdenum catalysts: structural changes and activity (39) 285

Hydroconversion

Hydrogen spillover activation of H-erionite for the hydroconversion of n-heptane (39) 89

Hydrocracking

Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39) 61

Hydrodesulphurization

So-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalyst by Mössbauer emission spectroscopy (39) L7

Hydrodesulphurization

Effect of phosphorus on the acidity of γ -alumina and on the thermal stability of γ -alumina supported nickel-molybdenum hydrotreating catalysts (39) 239

Hydrodesulphurization

Synthesis of molybdenum/silica and cobalt-molybdenum/silica catalysts and their catalytic activity in the hydrodesulphurization of thiophene (39) 333

Hydrotreating catalysts

Variation of the dispersion of active phases in commercial nickel-molybdenum/ γ -alumina hydrotreating catalysts during oxidative regeneration (39) 295

Iron

Improved flow technique for measurement of hydrogen chemisorption on metal catalysts (39) 77

Iron

Characterization of unreduced fused iron catalyst for ammonia synthesis (39) 169

Iron (III)/bentonite

Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39) 61

Kinetics

Thermooscillations during the complete oxidation of ethylene oxide over a supported silver catalyst (39) L1

Kinetics

Reaction of thiophene with hydrogen over cobalt-molybdenum/ γ -alumina catalysts II. The kinetics of the reaction (39) 25

Kinetics

Characterization of cobalt clusters nucleated on CoNaY by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation (39) 107

Kinetics

Catalytic activity of silica-supported vanadium for paraffin reactions (39) 135

Lauthanum/zeolite

Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties: comparison with CeHY catalysts (39) 227

Methanol conversion

Effect of modification of ZSM-5 type zeolite with calcium phosphate on its physico-chemical and catalytic properties (39) 315

Methylcyclopentane hydrogenolysis

Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Molybdenum oxide/alumina

Effect of phosphorus on the acidity of γ -alumina and on the thermal stability of γ -alumina supported nickel-molybdenum hydrotreating catalysts (39) 239

Molybdenum/alumina

Reaction of thiophene with hydrogen over cobalt-molybdenum/ γ -alumina catalysts II. The kinetics of the reaction (39) 25

Molybdenum/silica

Synthesis of molybdenum/silica and cobalt-molybdenum/silica catalysts and their catalytic activity in the hydrodesulphurization of thiophene (39) 333

Mössbauer spectroscopy

So-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalyst by Mössbauer emission spectroscopy (39) L7

Naphtha reforming

Naphtha reforming over catalysts containing a ferrisilicate zeolite of the pentasil type (39) 127

Nickel

Improved flow technique for measurement of hydrogen chemisorption on metal catalysts (39) 77

Nickel

Highly dispersed nickel catalyst formation and its activity in benzene hydrogenation (39) 153

Nickel oxide/alumina

Effect of phosphorus on the acidity of γ -alumina and on the thermal stability of γ -alumina supported nickel-molybdenum hydrotreating catalysts (39) 239

Nickel-molybdenum/alumina
Variation of the dispersion of active phases in commercial nickel-molybdenum/ γ -alumina hydrotreating catalysts during oxidative regeneration (39) 295

Oligomerization
Thermal desorption of C_6 - C_9 n-alkenes from the surface of zeolite HY (39) 49

Phosphorus
Effect of phosphorus on the acidity of γ -alumina and on the thermal stability of γ -alumina supported nickel-molybdenum hydrotreating catalysts (39) 239

Pillared clays
Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39) 61

Platinum/alumina
Mechanism of dehydrocyclization of n-alkanes over platinum-alumina catalysts (39) 123

Platinum/zeolite
Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Potassium vanadate/silica
Partial oxidation of ethane over KVO_3/SiO_2 and potassium promoted V_2O_5/SiO_2 catalysts (39) L11

Pyrophoric catalysts
Stabilization of pyrophoric industrial catalysts with carbon dioxide or oxidant mixtures (39) 325

Rare earth oxide/magnesia
Catalytic oxidative coupling of methane over alkali, alkaline earth and rare earth metal oxides (39) 185

Regeneration
Variation of the dispersion of active phases in commercial nickel-molybdenum/ γ -alumina hydrotreating catalysts during oxidative regeneration (39) 295

Secondary ion mass spectroscopy
Amine production from methanol and am-

monia over ZSM-5 and T-zeolite catalysts (39) 213

Selectivity
Partial oxidation of ethane over KVO_3/SiO_2 and potassium promoted V_2O_5/SiO_2 catalysts (39) L11

Selectivity
Catalytic performance of iron (III) and chromium (III) exchanged pillared clays (39) 61

Selectivity
Hydrogen spillover activation of H-erionite for the hydroconversion of n-heptane (39) 89

Selectivity
Characterization of cobalt clusters nucleated on CoNaY by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation (39) 107

Selectivity
Naphtha reforming over catalysts containing a ferrisilicate zeolite of the pentasil type (39) 127

Selectivity
Catalytic activity of silica-supported vanadium for paraffin reactions (39) 135

Selectivity
Catalytic oxidative coupling of methane over alkali, alkaline earth and rare earth metal oxides (39) 185

Selectivity
Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts (39) 213

Selectivity
Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Selectivity
Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Silver/alumina
Thermooscillations during the complete oxidation of ethylene oxide over a supported silver catalyst (39) L1

Sintering
Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts (39) 213

Sintering

Effect of phosphorus on the acidity of γ -alumina and on the thermal stability of γ -alumina supported nickel-molybdenum hydrotreating catalysts (39) 239

Sintering

Variation of the dispersion of active phases in commercial nickel-molybdenum/ γ -alumina hydrotreating catalysts during oxidative regeneration (39) 295

Solid electrolyte

Electrocatalytic phenomena in gas phase reactions in solid electrolyte electrochemical cells (Review) (39) 1

Spillover activation

Hydrogen spillover activation of H-erionite for the hydroconversion of n-heptane (39) 89

Stabilization

Stabilization of pyrophoric industrial catalysts with carbon dioxide or oxidant mixtures (39) 325

Sulphidation

High-resolution electron microscopy of cobalt-molybdenum catalysts: structural changes and activity (39) 285

Temperature-programmed desorption

Thermal desorption of C_6-C_9 n-alkenes from the surface of zeolite HY (39) 49

Thermooscillations

Thermooscillations during the complete oxidation of ethylene oxide over a supported silver catalyst (39) L1

Thiopene hydrogenolysis

Reaction of thiopene with hydrogen over cobalt-molybdenum/ γ -alumina catalysts II. The kinetics of the reaction (39) 25

Vanadia/silica

Partial oxidation of ethane over KVO_3/SiO_2 and potassium promoted V_2O_5/SiO_2 catalysts (39) L11

Vanadia/titania

Effect of the method of preparation on the properties of titania-supported vanadia catalysts (39) 267

Vanadium/silica

Catalytic activity of silica-supported vanadium for paraffin reactions (39) 135

Zeolites

Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33

Zeolites

Thermal desorption of C_6-C_9 n-alkenes from the surface of zeolite HY (39) 49

Zeolites

Characterization of cobalt clusters nucleated on $CoNaY$ by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation (39) 107

Zeolites

Naphtha reforming over catalysts containing a ferrisilicate zeolite of the pentasil type (39) 127

Zeolites

Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts (39) 213

Zeolites

Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties. Comparison with CeHY catalysts (39) 227

Zeolites

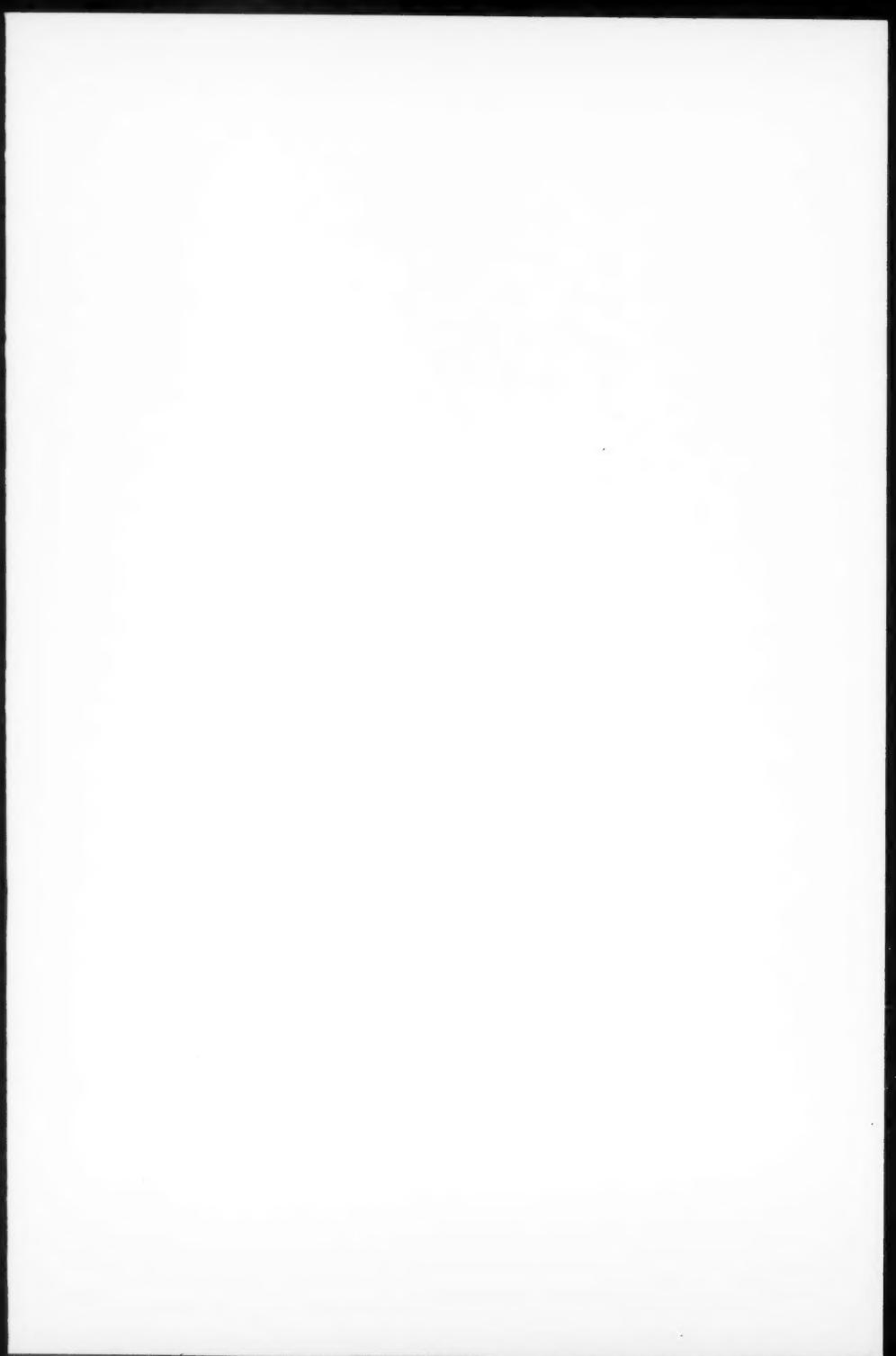
Dispersion and catalysis of platinum in bimetal/zeolite catalysts (39) 255

Zeolites

Effect of modification of ZSM-5 type zeolite with calcium phosphate on its physico-chemical and catalytic properties (39) 315

ZSM-5

Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts (39) 33



applied catalysis

AN INTERNATIONAL JOURNAL DEVOTED TO CATALYTIC SCIENCE AND ITS APPLICATIONS

VOL. 39, NO. 1-2

CONTENTS

MAY 16, 1988

(Abstracts/Contents Lists published in API Abstracts/Catalysts & Catalysis, Chemical Abstracts, Current Contents/Physical, Chemical & Earth Sciences, Current Contents/Engineering, Technology & Applied Sciences, Engineering Index, Metals Abstracts, Science Citation Index, Theoretical Chemical Engineering Abstracts, Automatic Subject Citation Alert and SCISEARCH)

Editorial: Change of the Americas Editor 1988 v

Acknowledgements to Referees vi

Applied Catalysis Letters

Thermooscillations during the complete oxidation of ethylene oxide over a supported silver catalyst A. Eliyas and L. Petrov (Sofia, Bulgaria)	L1
So-called "Co-Mo-S" phase observed in carbon-supported cobalt sulfide catalyst by Mössbauer emission spectroscopy A.M. van der Kraan, M.W.J. Crajé, E. Gerkema and W.L.T.M. Ramselaar (Delft The Netherlands) and V.H.J. de Beer (Eindhoven, The Netherlands)	L7
Partial oxidation of ethane over KVO_3/SiO_2 and potassium promoted V_2O_5/SiO_2 catalysts A. Erdohelyi and F. Solymosi	L11
 Electrocatalytic phenomena in gas phase reactions in solid electrolyte electrochemical cells (Review)	
P.J. Gellings, H.J.A. Koopmans and A.J. Burggraaf (Enschede, The Netherlands)	1
Reaction of thiophene with hydrogen over cobalt-molybdenum/ γ -alumina catalysts II. The kinetics of the reaction B. Radomyski, J. Szczygiel and J. Trawczyński (Wrocław, Poland)	25
Deoxygenation of carbohydrates and their isopropylidene derivatives over ZSM-5 zeolite catalysts M.I. Haniff and Lê H. Dao (Varennes, Que., Canada)	33
Thermal desorption of C_6-C_9 n-alkenes from the surface of zeolite HY R.V. Jasra, B.D. Bhatt, V.N. Garg and S.G.T. Bhat (Baroda, India)	49
Catalytic performance of iron(III) and chromium(III) exchanged pillared clays N.D. Skoulios, R.W. Coughlin, A. Kostapapas, K. Carrado and S.L. Suib (Storrs, CT, U.S.A.)	61
Improved flow technique for measurement of hydrogen chemisorption on metal catalysts R.D. Jones and C.H. Bartholomew (Provo, UT, U.S.A.)	77

(continued overleaf)

Contents (continued)

Hydrogen spillover activation of H-erionite for the hydroconversion of n-heptane A. El Tanany, G.M. Pajonk (Villeurbanne, France) K.-H. Steinberg, (Leipzig, G.D.R.) and S.J. Teichner (Villeurbanne, France)	89
Characterization of cobalt clusters nucleated on CoNaY by ferromagnetic resonance spectroscopy and carbon monoxide hydrogenation J.C. Kim and S.I. Woo (Seoul, Korea)	107
Mechanism of dehydrocyclization of n-alkanes over platinum–alumina catalysts S. Sivasanker and S.R. Padalkar (Pune, India)	123
Naphtha reforming over catalysts containing a ferrisilicate zeolite of the pentasil type S. Sivasanker, K.J. Waghmare, S.R. Padalkar and P. Ratnasamy (Pune, India) and K.R. Murthy (Vadodara, India)	127
Catalytic activity of silica-supported vanadium for paraffin reactions F.-M. Lee and A.M. Schaffer (Bartlesville, OK, U.S.A.)	135
Highly dispersed nickel catalyst formation and its activity in benzene hydrogenation A.Ya. Yuffa (Tumen, U.S.S.R.) and A.Yu. Stakheev, E.S. Shpiro, A.A. Slinkin, A.V. Kucherov, E.A. Fedorovskaya, G.V. Antoshin and Ch.M. Minachev (Moscow, U.S.S.R.)	153
Characterization of unreduced fused iron catalyst for ammonia synthesis A. Pattek-Janczyk, A. Baránski, A. Kotarba, A. Kowalska, B. Miczko, E. Pyrczak, A. Reizer, K. Reubenbauer and B. Sepiol (Cracow, Poland) and Z. Spiewak (Tarnów, Poland) ..	169
Catalytic oxidative coupling of methane over alkali, alkaline earth and rare earth metal oxides B. Yingli, Z. Kaiji, J. Yutao, T. Chiwen and Y. Xiangguong (Changchun, P.R. China)	185
Catalyst deactivation in acetylene polymerization V.M. Allenger, J.R. Brown, D. Clugston, M. Ternan and D.D. McLean (Ottawa, Ont., Canada)	191
Amine production from methanol and ammonia over ZSM-5 and T-zeolite catalysts Chr. Herrmann and F. Fetting (Darmstadt, F.R.G.) and C. Plog (Friedrichshafen, F.R.G.)	213
Influence of lanthanum content of LaHY catalysts on their physico-chemical and catalytic properties: comparison with CeHY catalysts F. Lemos and F. Ramôa Ribeiro (Lisbon, Portugal), M. Kern (Poitiers, France), G. Giannetto (Caracas, Venezuela) and M. Guisnet (Poitiers, France)	227
Effect of phosphorus on the acidity of γ -alumina and on the thermal stability of γ -alumina supported nickel–molybdenum hydrotreating catalysts A. Stanislaus, M. Absi-Halabi and K. Al-Dolama (Safat, Kuwait)	239
Dispersion and catalysis of platinum in bimetal/zeolite catalysts H.J. Jiang, M.S. Tzou and W.M.H. Sachtler (Evanston, IL, U.S.A.)	255
Effect of the method of preparation on the properties of titania-supported vanadia catalysts G. Hausinger, H. Schmelz and H. Knözinger (Munich, F.R.G.)	267
High-resolution electron microscopy of cobalt–molybdenum catalysts: structural changes and activity J.R. Günter and O. Marks (Zurich, Switzerland) and T.I. Korányi and Z. Paál (Budapest, Hungary)	285

Variation of the dispersion of active phases in commercial nickel–molybdenum/γ-alumina hydrotreating catalysts during oxidative regeneration R.A. Madeley and S.E. Wanke (Edmonton, Alta., Canada).....	295
Effect of modification of ZSM-5 type zeolite with calcium phosphate on its physico-chemical and catalytic properties K. Suzuki, Y. Kiyozumi (Ibaraki, Japan), K. Matsuzaki and S. Ikai (Tokyo, Japan) and S. Shin (Ibaraki, Japan).....	315
Stabilization of pyrophoric industrial catalysts with carbon dioxide or oxidant mixtures A.V. Krylova, N.V. Nefedova and N.S. Torocheshnikov (Moscow, U.S.S.R.).....	325
Synthesis of molybdenum/silica and cobalt–molybdenum/silica catalysts and their catalytic activity in the hydrodesulphurization of thiophene A.A. Spozhakina, N.G. Kostova, I.N. Yuchnovski, D.M. Shopov (Sofia, Bulgaria) and T.M. Yurieva and T.Kh. Shochireva (Novosibirsk, U.S.S.R.).....	333
News Brief	
Dr. John N. Armor	344
Dr. J.V. Sanders	344
The age of productivity	345
Oxidation of olefins to carbonyl compounds	345
Carbonylation reactions	345
Some new patents	346
Other new patents	348
Catalysis by silica overlayers	348
Methanol to gasoline	348
Each process its own zeolite	349
Hydrogen peroxide production	349
Getting published — fast	349
Catalysis Letters	350
European Community research	350
Surface Science Centre at Liverpool has strong links with catalysis	350
New book on X-ray absorption	350
Calendar of Forthcoming Events	351
Book Reviews	354
Author Index	359
Subject Index	362
Guide for Authors	368
Contents of recent issues of <i>Journal of Molecular Catalysis</i>	373

In articles with more than one author, the name of the author to whom correspondence should be addressed is indicated in the article heading by a 6-pointed asterisk (*)

7